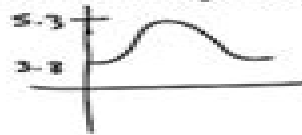


## Sinusoidal Word Problems

1. The height of the tip of an airplane propeller above the ground, once the engines reach full speed, can be modelled by a sinusoidal function. The propeller makes 200 revolutions per second. At  $t=0$  the tip of the propeller is at a minimum height above the ground at 3.8m. Its maximum height is 5.3m. Model this with an equation.



200 rps

$$\text{amp } \frac{(5.3 - 3.8)}{2} = 0.75$$

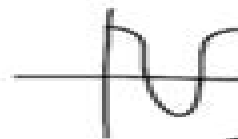
$$\text{axis } \frac{5.3 + 3.8}{2} = 4.55$$

200 rev take 1 sec  
 $1 \text{ rev } \quad 1 \div 200 = 0.005 \text{ period}$

$$\frac{360}{k} = 0.005$$

$$k = \frac{360}{0.005} = 72000$$

$$h(t) \leftarrow y = -0.75 \cos 72000t + 4.55$$



# Sinusoidal Word Problems With Answers

**Wolfgang Guggemos**



## **Sinusoidal Word Problems With Answers:**

## **Sinusoidal Word Problems With Answers** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Sinusoidal Word Problems With Answers**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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